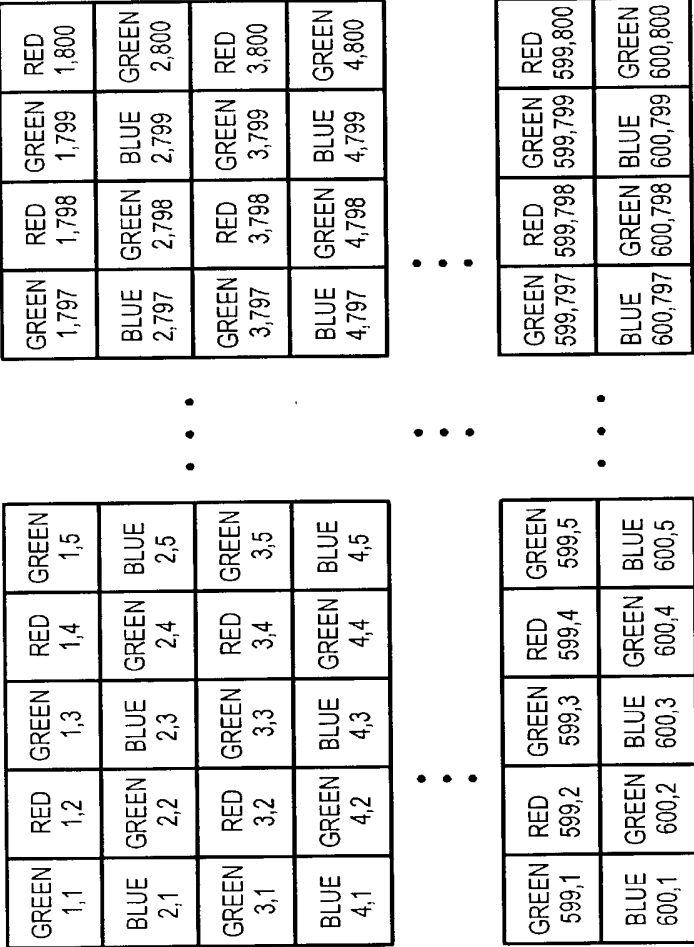


FIG. 1



PRIOR ART **FIG. 2**

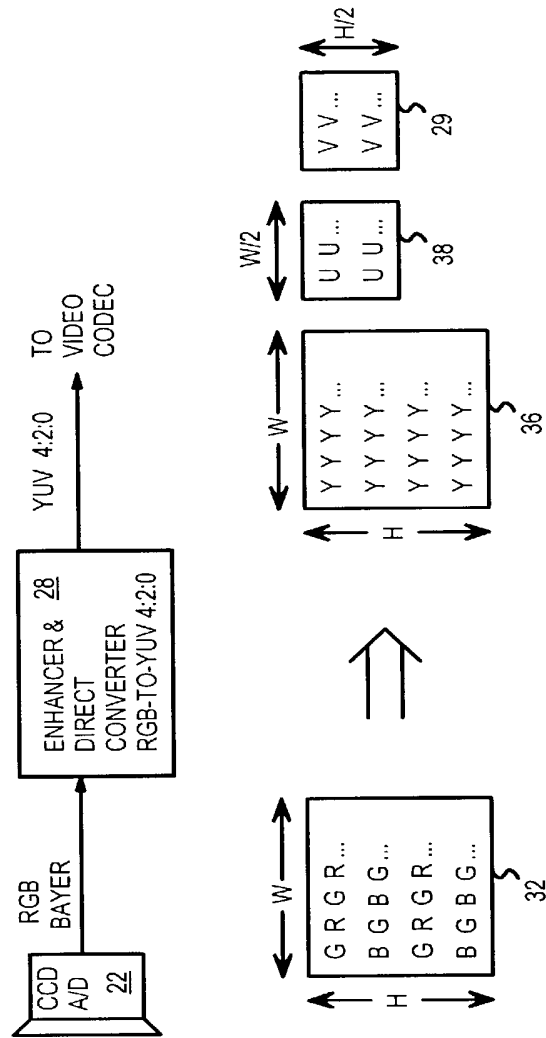


FIG. 3

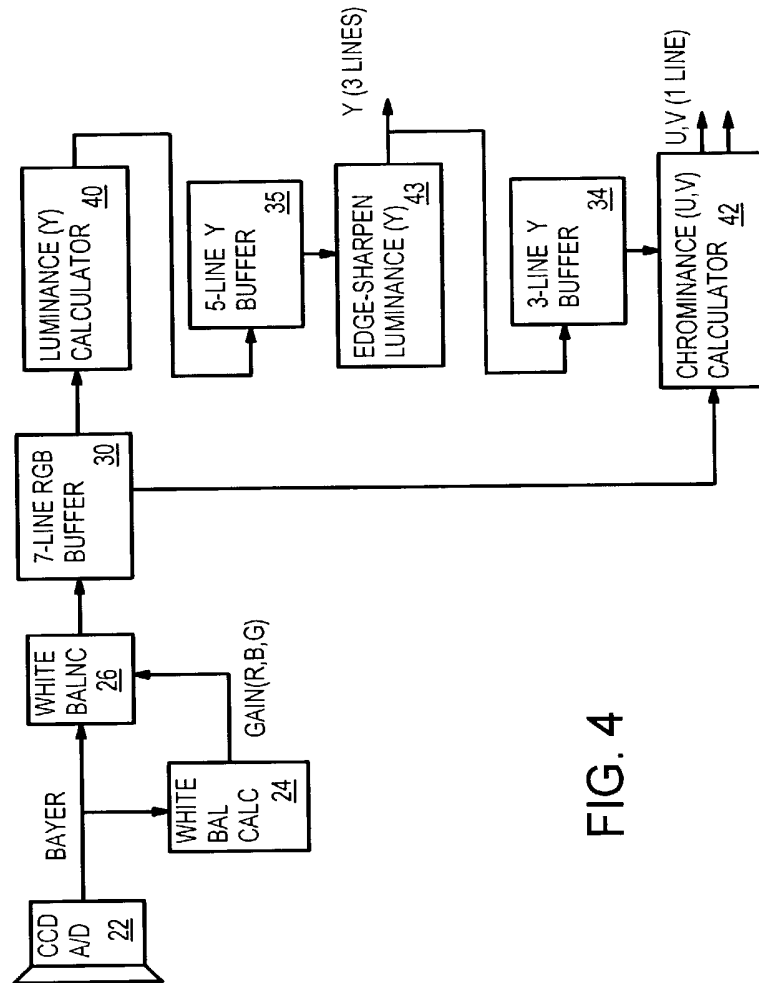
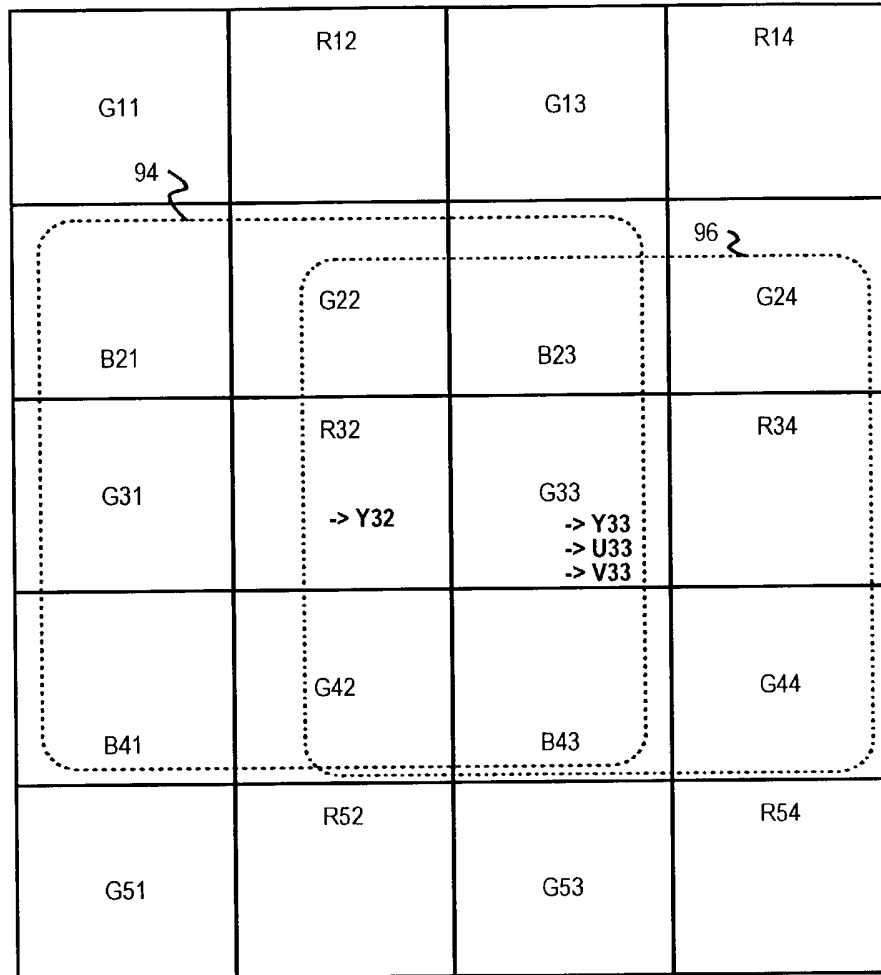
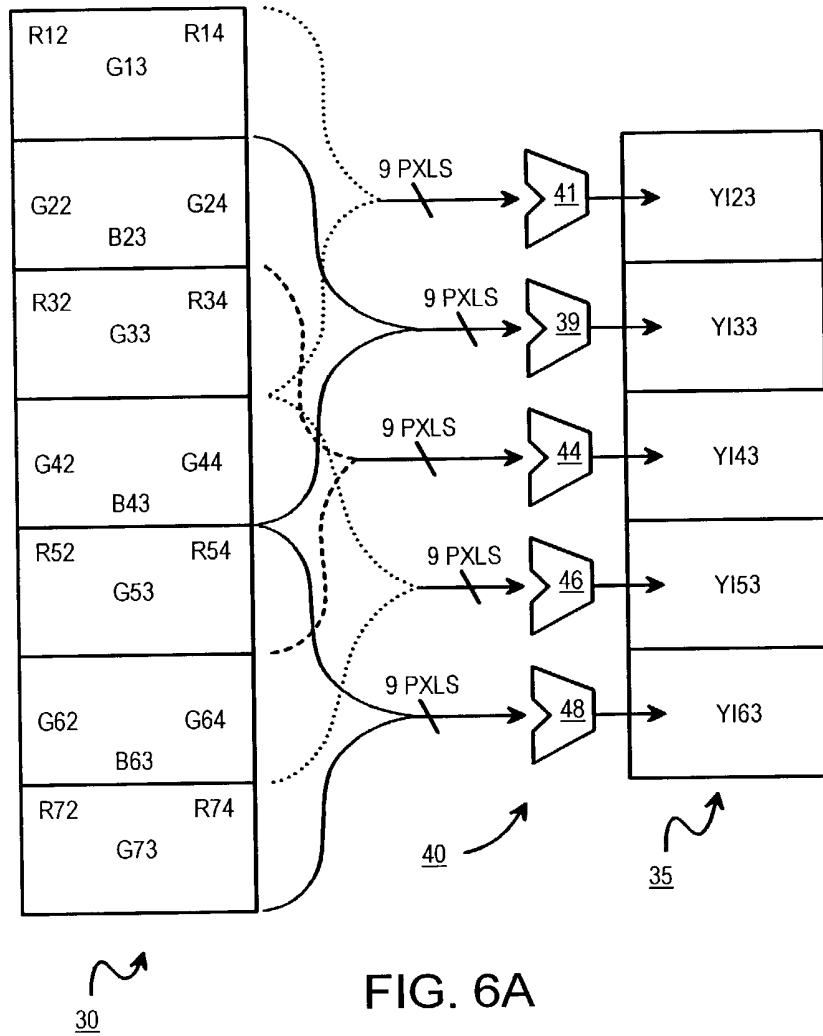


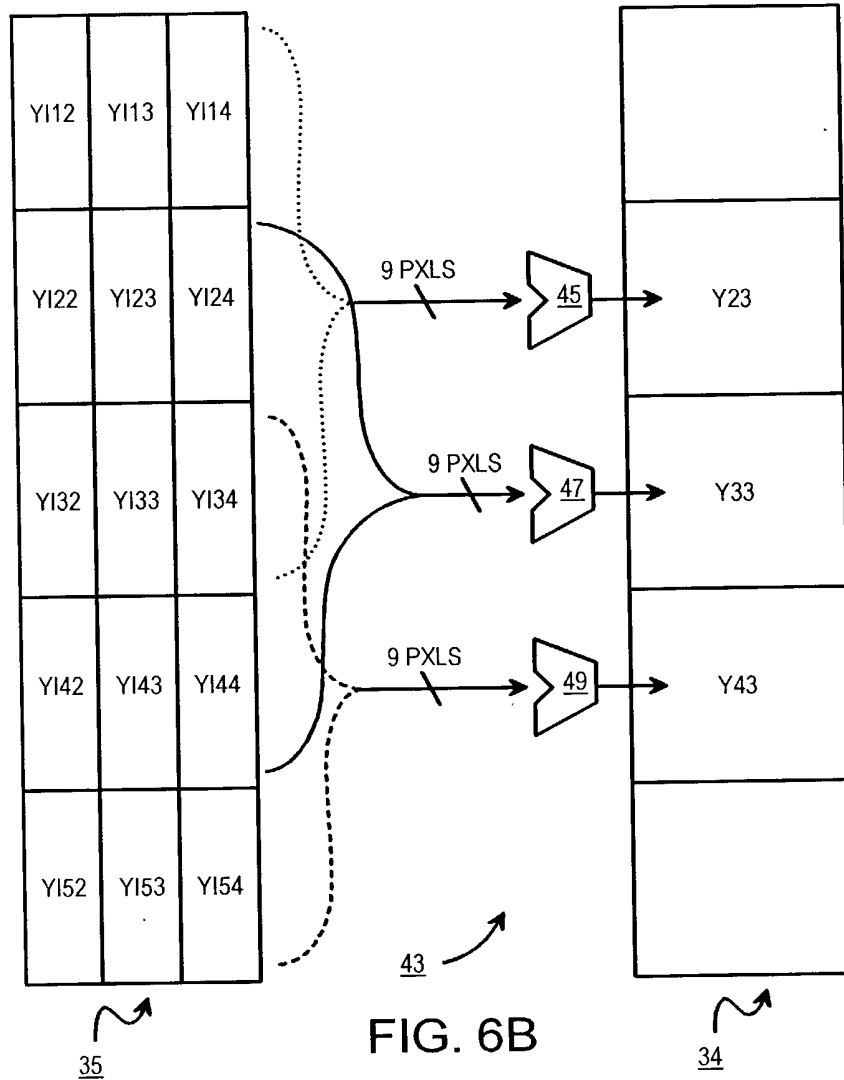
FIG. 4



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FIG. 5





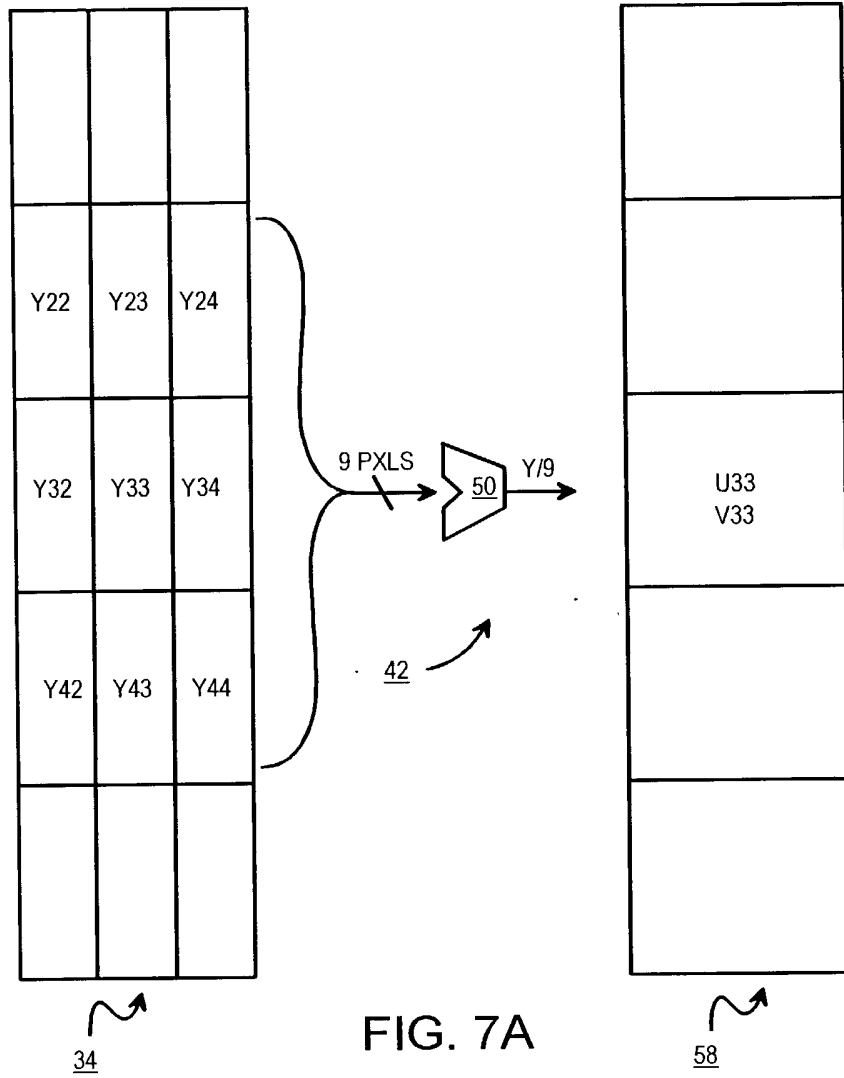
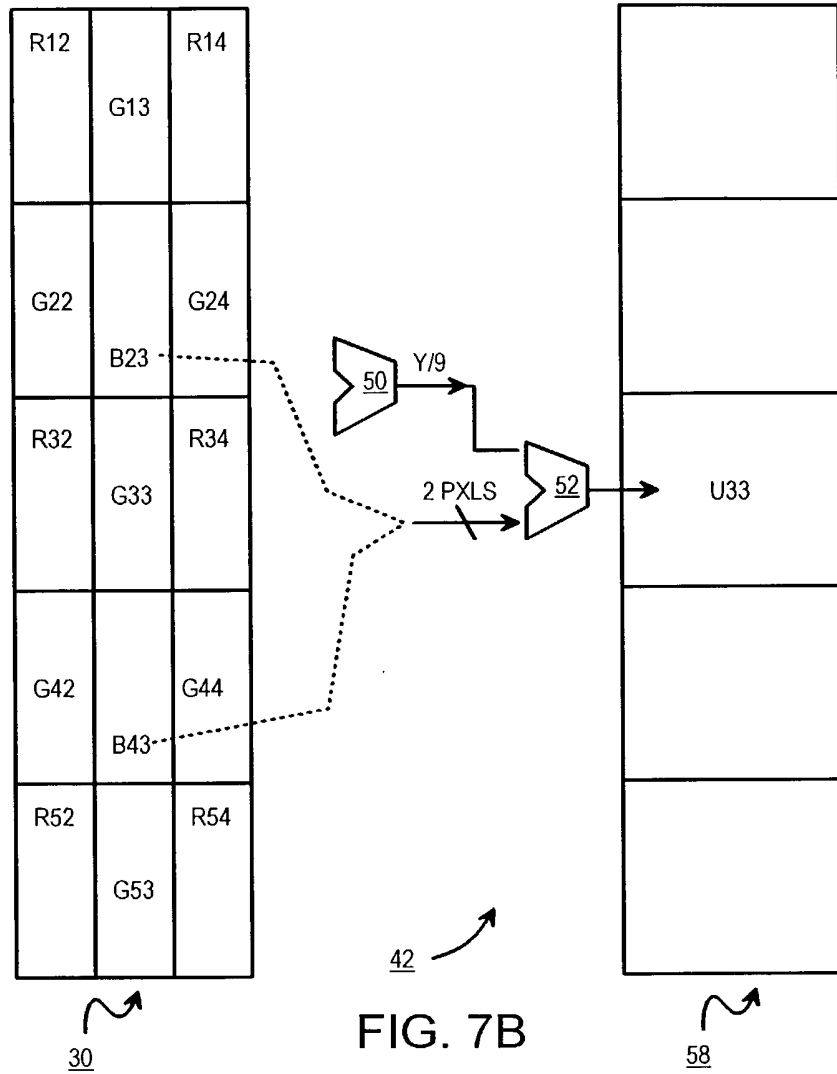
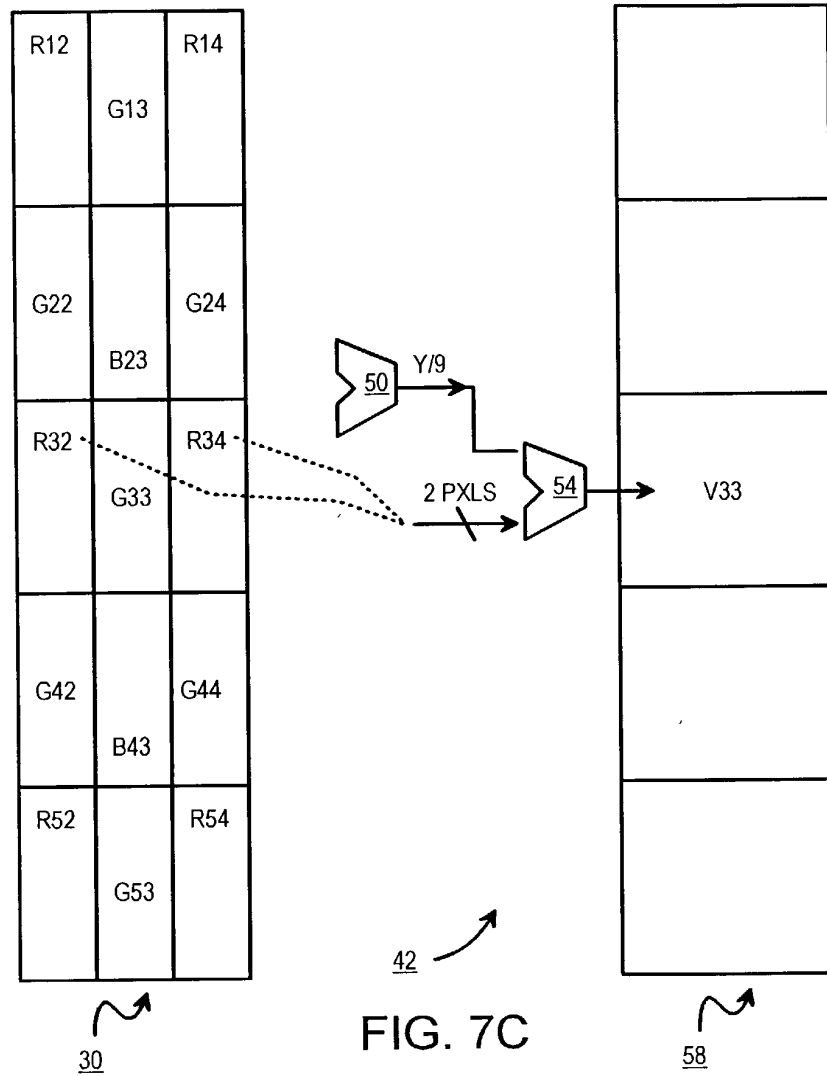


FIG. 7A





INITIAL LUMINANCE COMPUTATION (YI)

C = 0.299, D = 0.587, E = 0.144

G R G	R G R	B G B	G B G
B G B	G B G	G R G	R G R
G R G	R G R	B G B	G B G
PATTERN 1	PATTERN 2	PATTERN 3	PATTERN 4
D/8 C/2 D/8	C/4 D/4 C/4	E/4 D/4 E/4	D/8 E/2 D/8
E/2 D/2 E/2	D/4 E D/4	D/4 C D/4	C/2 D/2 C/2
D/8 C/2 D/8	C/4 D/4 C/4	E/4 D/4 E/4	D/8 E/2 D/8
COEFF FOR PATTERN 1	COEFF FOR PATTERN 2	COEFF FOR PATTERN 3	COEFF FOR PATTERN 4

FIG. 8A

FIG. 8B

FIG. 8C

FIG. 8D

EDGE SHARPENING FOR LUMINANCE

YI YI YI
YI YI YI
YI YI YI

INITIAL Y PATTERN

FIG. 9A

-1/16 -2/16 -1/16
-2/16 12/16 -2/16
-1/16 -2/16 -1/16

COEFF FOR
EDGE SHARPENED Y

FIG. 9B

CHROMINANCE COMPUTATION

	1/9 1/9 1/9
G B G	1/9 1/9 1/9
R G R	1/9 1/9 1/9
G B G	
	COEFF FOR
PATTERN 4	INTERMEDIATE
	SUM (Y/9)

FIG. 10A

FIG. 10B

0 1/2 0
0 0 0
0 1/2 0
COEFF FOR
INTERMEDIATE
SUM (S_U)

FIG. 10C

0 0 0
1/2 0 1/2
0 0 0
COEFF FOR
INTERMEDIATE
SUM (S_V)

FIG. 10D

FIG. 10E

$$U = 0.493 \times (S_U - Y/9)$$

$$V = 0.877 \times (S_V - Y/9)$$

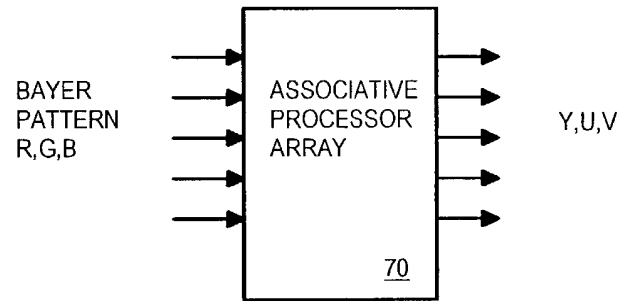


FIG. 11A

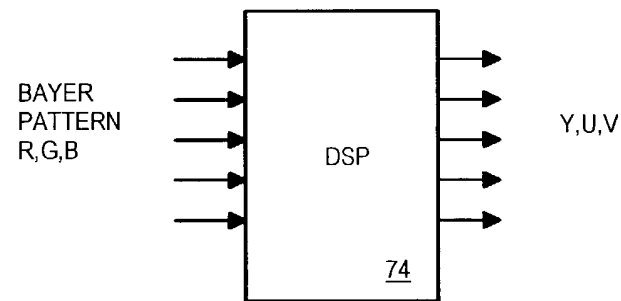


FIG. 11B

CHROMINANCE COMPUTATION FOR B-G-B PATTERN

B G B
G R G
B G B

PATTERN 3

FIG. 12A

1/9 1/9 1/9
1/9 1/9 1/9
1/9 1/9 1/9

COEFF FOR
INTERMEDIATE
SUM (Y/9)

FIG. 12B

1/4 0 1/4
0 0 0
1/4 0 1/4

COEFF FOR
INTERMEDIATE
SUM (S_U)

FIG. 12C

0 0 0
0 1 0
0 0 0

COEFF FOR
INTERMEDIATE
SUM (S_V)

FIG. 12D

FIG. 12E

$$U = 0.493 \times (S_U - Y/9)$$

$$V = 0.877 \times (S_V - Y/9)$$